

his Version (A) differ from the previous version of this CCR as follows:

New text for C-MSS-56096 is changed to replace the text "not limit the number of" with the word "support".

Updates are made in this Version (A) to remove requirements C-MSS-36012, 36014, and 36016 from this CCR. The link tables are also updated.

The interpretation text for SMC-6420#B is changed from "Accounts payable deferred. Account payables functionality will be provided by contractor separately" to read "Accounts Payable functionality deferred."

Table 2 is changed to separate the modified requirements from the deleted requirements. Table 3 shows the deleted requirements and the identity of all other tables beyond Table 3 are increased by 1.

Miscellaneous editorial changes are made.

The following information is removed from Table 6 of this CCR, since this information is erroneous and should not be included in the table.

<u>SMC-6320#C</u>	<u>new</u>	<u>C</u>	<u>CSMS</u>	<u>The SMC shall perform, as needed, data and user audit trails.</u>	<u>demo</u>	<u>un-verified</u>	<u>Mission Essential</u>	<u>demo</u>	<u>un-verified</u>	<u>Perform Date/ User Audit Trail</u>	<u>security</u>
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Tables showing the mandatory attributes of the RBRs and Level 4 requirements are added.

ABLE 1: Table ! represents the Reference Table for the changes made by this CCR.

4 ID	Rel	RTM Key	L4 Text	Clarification	Req Type	RbR ID	RTM key	RbR Text	RbR Type	Interpret
<u>-MSS-18042</u>	<u>B</u>	<u>NEW</u>	The MSS MDA shall have the <u>capability to distinguish MSS log file records according to mode identifier.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-18042</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-18042</u>						EOSD2440#B	3885	Data base integrity including prevention of data loss and corruption shall be maintained.	security	
<u>-MSS-18044</u>	<u>B</u>	<u>NEW</u>	The MSS MDA shall support a <u>separate management database for each active mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-18044</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-18044</u>						EOSD2440#B	3885	Data base integrity including prevention of data loss and corruption shall be maintained.	security	
<u>-MSS-18046</u>	<u>B</u>	<u>NEW</u>	The MSS MDA shall transfer <u>MSS log file records to the appropriate management database based on the event's mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-18046</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-18046</u>						EOSD2440#B	3885	Data base integrity including prevention of data loss and corruption shall be maintained.	security	
<u>-MSS-18048</u>	<u>B</u>	<u>NEW</u>	The MSS MDA shall transfer <u>non-mode specific MSS log file records to all mode specific management databases.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	

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<u>-MSS-18048</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-18048</u>						EOSD2440#B	3885	Data base integrity including prevention of data loss and corruption shall be maintained.	security	
<u>-MSS-18072</u>	<u>B</u>	<u>new</u>	The MSS Management Data Access Service shall have the <u>capability to chain management events to their ancestor management events.</u>		<u>functional</u>	<u>ESN-1000#B</u>	<u>new</u>	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.		
<u>-MSS-18072</u>	<u>B</u>	<u>new</u>	The MSS Management Data Access Service shall have the <u>capability to chain management events to their ancestor management events.</u>		<u>functional</u>	<u>EOSD0500#B</u>	<u>new</u>	ECS shall perform the following major functions: a. <u>EOS Mission Planning and Scheduling</u> b. <u>EOS Mission Operations</u> c. <u>Command and Control</u> d. <u>Communications and Networking</u> e. <u>Data Input</u> f. <u>Data Processing</u> g. <u>Data Storage</u> h. <u>Data Distribution</u>		
<u>-MSS-18074</u>	<u>B</u>	<u>new</u>	The MSS Management Data Access Service event chaining tool shall provide user access via the MDA user interface.		<u>functional</u>	<u>ESN-1000#B</u>	<u>new</u>	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.		
<u>-MSS-18074</u>	<u>B</u>	<u>new</u>	The MSS Management Data Access Service event chaining tool shall provide user access via the MDA user interface.		<u>functional</u>	<u>EOSD0500#B</u>	<u>new</u>	ECS shall perform the following major functions: a. <u>EOS Mission Planning and Scheduling</u> b. <u>EOS Mission Operations</u> c. <u>Command and Control</u> d. <u>Communications and Networking</u> e. <u>Data Input</u> f. <u>Data Processing</u> g. <u>Data Storage</u> h. <u>Data Distribution</u>		
<u>-MSS-36012</u>	<u>B</u>	<u>NEW</u>	The MSS MACI shall have the <u>capability to obtain the mode identifier of managed application.</u>		<u>functional</u>	<u>EOSD0510#B</u>	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-36012</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	

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<u>-MSS-36012</u>						SMC-1000#B	5150	The SMC shall provide application programming interfaces (APIs) for the monitoring and control of managed resources. These APIs shall provide mechanisms for: a. Capturing, by an application, of management data b. Exchanging management data between a managed application and its management agent c. Exchanging management data between a management agent and the LSM d. Performing analyses and generating reports using management data	functional	
<u>-MSS-36014</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MACI shall incorporate the mode identifier into all metrics collected.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-36014</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-36014</u>						SMC-1000#B	5150	The SMC shall provide application programming interfaces (APIs) for the monitoring and control of managed resources. These APIs shall provide mechanisms for: a. Capturing, by an application, of management data b. Exchanging management data between a managed application and its management agent c. Exchanging management data between a management agent and the LSM d. Performing analyses and generating reports using management data	functional	
<u>-MSS-36016</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MACI shall be able to distinguish managed applications based on mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-36016</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	

<u>MSS-36016</u>						SMC-1000#B	5150	The SMC shall provide application programming interfaces (APIs) for the monitoring and control of managed resources. These APIs shall provide mechanisms for: a. Capturing, by an application, of management data b. Exchanging management data between a managed application and its management agent c. Exchanging management data between a management agent and the LSM d. Performing analyses and generating reports using management data	functional	
<u>MSS-42000</u>	B	7705	The MSS Software Distribution Service shall maintain use version-controlled repositories for toolkit software, software upgrades, and documentation software packages.	The version-controlled repository will function as a software development & distribution library. Software packages include, at a minimum: toolkit software, software upgrades, and documentation.	functional					
<u>MSS-42035</u>	B	NEW	<u>The MSS Software Distribution Service shall receive version-controlled software packages from the Baseline Manager Service for distribution.</u>		<u>interface</u>	SMC-2120#B	4671	The SMC shall make available for automated distribution to authorized users all unlicensed toolkit software, toolkit software upgrades, and toolkit documentation.	interface	
<u>MSS-42035</u>						SMC-2535#B	4777	Upon approval of an enhancement, the LSM shall facilitate the implementation of the approved changes within an elements hardware and software.		
<u>MSS-42040</u>	B	7709	The MSS Software Distribution Service shall schedule via the EMC Planning and Scheduling Service automatic and operator-assisted distribution of software packages.		functional	SMC-2120#B	4671	The SMC shall make available for automated distribution to authorized users all unlicensed toolkit software, toolkit software upgrades, and toolkit documentation.	functional	B: Fully automated.
<u>MSS-42040</u>						SMC-2535#B	4777	Upon approval of an enhancement, the LSM shall facilitate the implementation of the approved changes within an elements hardware and software.	functional	B: Full capability

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<u>MSS-42050</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Software Distribution Service shall make toolkit software and documentation available for automated downloading.</u>		<u>functional</u>	SMC-2120#B	4671	The SMC shall make available for automated distribution to authorized users all unlicensed toolkit software, toolkit software upgrades, and toolkit documentation.	functional	
<u>MSS-42250</u>	B	7718	The MSS License Management Service shall meter use of software license	<u>Requests to use licensed applications will be granted if the requested license is valid, the requester is an authorized user of the license, the requested license is available.</u>	functional					
<u>MSS-42290</u>	B	7721	The MSS License Management Service shall compile license utilization statistics.	<u>Stats include, at a minimum: number of users accessing applications over fixed time periods; times and durations that applications are accessed; workstations and users accessing licensed applications; reservation queues' lengths during selected time periods.</u>	functional					

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-MSS-42300	B	7722	The MSS License Management Service shall report license utilization statistics.	<u>Stats include, at a minimum: number of users accessing applications over fixed time periods; times and durations that applications are accessed; workstations and users accessing licensed applications; reservation queues' lengths during selected time periods.</u>	functional					
-MSS-51010	B	7768	The MSS Training Management Application Service at the SMC shall provide the capability to input, store, maintain, and view/print training information.	<u>Training information includes, at a minimum: training requirements; course descriptions; training resources; training locations; training schedules.</u>	functional					
-MSS-51020	B	7769	The MSS Training Management Application Service at the SMC shall provide the capability to input, store, maintain, and view/print training records information.	<u>Training records information includes, at a minimum: identification of personnel; identification of training/certification completed or in progress; expected completion date.</u>	functional					

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-MSS-51030	B	7770	The MSS Training Management Application Service shall provide the capability to input, store, maintain, and view/print site training requirements information .		functional					
-MSS-51060	B	7771	The MSS Training Management Application Service at the SMC shall provide the capability to prepare, update, store, and view/print, and disseminate training courses descriptions, course prerequisites, resource requirements, and schedules information.	<u>Training course information includes, at a minimum: course descriptions, course prerequisites, and course schedules.</u>	functional					
-MSS-52040	B	7781	The MSS Policy and Procedures Management Service shall <u>have the capability to interface with the ECS</u> provide a Bulletin Board Service with <u>for posting of</u> information on ECS, status, events, and news.		functional interface	SMC-2620#B	4785	The SMC shall maintain via the ECS bulletin board service, the SMC toolkit consisting of a list of SDPS approved CASE tools and references to standards for exchanging data for scientist use.	functional	
-MSS-52050	B	7782	The MSS Policy and Procedures Management Service shall maintain a bulletin board service with information on ECS, status, events and news,		functional	SMC-2620#B	4785	The SMC shall maintain via the ECS bulletin board service, the SMC toolkit consisting of a list of SDPS approved CASE tools and references to standards for exchanging data for scientist use.	functional	
-MSS-56070	B	7789	The MSS Mode Management test mode shall be capable of executing simultaneously with the operational mode <u>Service shall be capable of executing a test mode simultaneously with the production mode.</u>		functional	EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
-MSS-56080	B	7790	The MSS Mode Management <u>Service shall</u> training mode shall be capable of executing simultaneously with the operational mode <u>be capable of executing a training mode simultaneously with the production mode.</u>		functional					
-MSS-56082	B	NEW	The MSS Mode Management <u>Service shall provide the capability to initiate a new mode of execution.</u>		functional	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	

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<u>-MSS-56084</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide the capability to control life cycle activities within each given mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56084</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56086</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall have the capability to provide a mode identifier to initialize ECS applications.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56086</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56088</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide a GUI for mode initiation.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56088</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56092</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide a GUI for mode monitoring.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56092</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56094</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide a GUI for mode control.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56094</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56096</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall of support concurrently executing non-production modes.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	

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<u>-MSS-56096</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56098</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall support no more than one production mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56098</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56100</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall have the capability to provide a simulated time value.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56100</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-56102</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Management Framework shall provide a mode specific view of ECS applications for any active mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>-MSS-56102</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>-MSS-60012</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Fault Management Service shall provide fault detection and isolation capabilities for each mode.</u>		<u>functional</u>	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	
<u>-MSS-60012</u>						SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		

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<u>MSS-60012</u>						SMC-3305#B	4790	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-60014</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Fault Management Service shall provide the capability to distinguish faults between different modes.</u>		<u>functional</u>	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	
<u>MSS-60014</u>						SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-60014</u>						SMC-3305#B	4790	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-60016</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Fault Management Service shall maintain fault statistics for each mode.</u>		<u>functional</u>	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	
<u>MSS-60016</u>						SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		

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<u>MSS-60016</u>						SMC-3305#B	4790	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-60400</u>	A	264	The MSS Fault Management Application Service shall support, maintain, and update system fault management policies and procedures, to include: a. Fault Identification b. Fault priorities c. Recovery or corrective actions		functional	SMC-4300#B	4959	The SMC shall support, maintain, and update system fault management policies and procedures including, at a minimum: a. Fault identification b. Fault priorities c. Recovery or corrective actions	functional	B:Full capabili
<u>MSS-66002</u>	B	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to monitor each mode for performance statistics.</u>		<u>functional</u>	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	
<u>MSS-66002</u>						SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-66002</u>						SMC-3305#B	4790	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-66004</u>	B	<u>NEW</u>	<u>The MSS Performance Management Application Service shall provide the capability to distinguish performance metrics between different modes.</u>		<u>functional</u>	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	

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<u>MSS-66004</u>						SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-66004</u>						SMC-3305#B	4790	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-66006</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall maintain performance statistics for a given mode.</u>		<u>functional</u>	EOSD0780#B	3845	Each ECS element shall be capable of being monitored during testing.	functional	
<u>MSS-66006</u>						SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-66006</u>						SMC-3305#B	4790	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode		
<u>MSS-66181</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to capture and save histories of system errors and events for system analysis and trending.</u>		<u>functional</u>	SMC-3410#B	4952	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	functional	

<u>-MSS-66181</u>						SMC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	functional	
<u>-MSS-66181</u>						SMC-3380#B	4941	The SMC shall evaluate overall system performance.	functional	
<u>-MSS-66181</u>						ESN-1000#B	3994	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.	functional	
<u>-MSS-66182</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to capture and save histories of operational status, performance of resources and maintenance activities for system analysis and trending.</u>		<u>functional</u>	SMC-3410#B	4952	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	functional	
<u>-MSS-66182</u>						ESN-1000#B	3994	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.	functional	
<u>-MSS-66183</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to monitor the performance of ECS relational and object oriented database servers.</u>		<u>functional</u>	SMC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode	functional	Full-capability
<u>-MSS-66183</u>						SMC-3380#B	4941	The SMC shall evaluate overall system performance.	functional	
<u>-MSS-66183</u>						SMC-3390#B	4944	The SMC shall generate alert indicators of fault or degraded conditions with the corrective actions.	functional	
<u>-MSS-69100</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to save and retrieve data from the management database for long and short term trending.</u>		<u>functional</u>	ESN-1000#B	3994	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.	functional	
<u>-MSS-69100</u>						SMC-3380#B	4941	The SMC shall evaluate overall system performance	functional	

<u>-MSS-69100</u>						SMC-3410#B	4952	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	functional	
<u>-MSS-69100</u>						SMC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	functional	Full-capability
<u>-MSS-69105</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to generate the following types of trend analysis:</u> <u>a. time series analysis</u> <u>b. analysis of variance including multiple analysis of variance</u> <u>c. correlation analysis</u> <u>d. regression analysis including non-linear and multiple regression</u>		<u>functional</u>	SMC-3410#B	4952	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	functional	
<u>-MSS-69105</u>						SMC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	functional	
<u>-MSS-69110</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall provide the capability to select parameters for trend analysis.</u>		<u>functional</u>	SMC-3410#B	4952	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	functional	
<u>-MSS-69110</u>						SMC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	functional	Full-capability

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<u>-MSS-69120</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to output trend data in textual and graphical formats.</u>		<u>functional</u>	SMC-3410#B	4952	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	<u>functional</u>	
<u>-MSS-69120</u>						SMC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	<u>functional</u>	
<u>-MSS-69150</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to perform short and long term trending by system, sub-system, and site and element.</u>		<u>functional</u>	SMC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	<u>functional</u>	
<u>-MSS-69150</u>						ESN-1000#B	3994	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.	<u>functional</u>	
<u>-MSS-78700</u>	<u>BC</u>	7914	The MSS BAAS Accounts Payable (AP) function shall maintain vendor/payee master files.		<u>functional</u>	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
<u>-MSS-78700</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	<u>functional</u>	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>-MSS-78710</u>	<u>BC</u>	7915	The MSS BAAS Accounts Payable (AP) function shall provide the capability to update vendor/payee master files.		<u>functional</u>	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	

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MSS-78710						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78720	<u>BC</u>	7916	The MSS BAAS Accounts Payable (AP) function shall maintain payee account balances.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78720						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78730	<u>BC</u>	7917	The MSS BAAS Accounts Payable (AP) function shall maintain payee account information to include: a. payee bank account information. b. payee taxpayer identification number and payee type. c. contract terms (e.g., net terms, terms that use discounting, end-of-month terms).		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78730						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78740	<u>BC</u>	7918	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish "pre-paid" accounts.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78740						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>

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MSS-78750	<u>BC</u>	7919	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish temporary accounts (e.g., when issuing a refund to a user account).		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78750						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78760	<u>BC</u>	7920	The MSS BAAS Accounts Payable (AP) function shall support batch entry of invoices.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78760						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78770	<u>BC</u>	7921	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to purchase order line items.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78770						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78780	<u>BC</u>	7922	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to inventory receiving reports.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78780						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>

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<u>MSS-78790</u>	<u>BC</u>	7923	The MSS BAAS Accounts Payable (AP) function shall provide the capability to indicate discrepancies between quantity, type, and cost of goods ordered, received, and invoiced.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
<u>MSS-78790</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>MSS-78810</u>	<u>BC</u>	7924	The MSS BAAS Accounts Payable (AP) function shall provide on-line voucher approval by M&O staff.		functional	<u>SMC-6320#C</u>	<u>NEW</u>	<u>The SMC shall perform, as needed, data and user audit trails.</u>	<u>security</u>	
<u>MSS-78810</u>						<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>MSS-78810</u>						SMC-6320#B	4992	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability
<u>MSS-78810</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>MSS-78820</u>	<u>BC</u>	7925	The MSS BAAS Accounts Payable (AP) function shall provide re-routing capabilities for vouchers which are not approved the first time.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
<u>MSS-78820</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>

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<u>MSS-78830</u>	<u>BC</u>	7926	The MSS BAAS Accounts Payable (AP) function shall provide the ability to suspend a voucher from further processing.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
<u>MSS-78830</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>MSS-78840</u>	<u>BC</u>	7927	The MSS BAAS Accounts Payable (AP) function shall provide the capability to void a voucher		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
<u>MSS-78840</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>MSS-78850</u>	<u>BC</u>	7928	The MSS BAAS Accounts Payable (AP) function shall allow M&O staff to break up a voucher into multiple payments when charges on invoice have different due dates.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
<u>MSS-78850</u>						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
<u>MSS-78860</u>	<u>BC</u>	7929	The MSS BAAS Accounts Payable (AP) function shall provide the capability to combine several vouchers for the same vendor into a single payment.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	

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MSS-78860						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78870	BC	7930	The MSS BAAS Accounts Payable (AP) function shall provide the capability to post payments to "pre-paid" accounts automatically.		functional	SMC-6420#C	NEW	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	
MSS-78870						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78880	BC	7931	The MSS BAAS Accounts Payable (AP) function shall assign a status code to each voucher to track its progress through the system.		functional	SMC-6420#C	NEW	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	
MSS-78880						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78900	BC	7933	The MSS BAAS Accounts Payable (AP) function shall allow an on-line query and searching of the voucher history file.		functional	SMC-6420#C	NEW	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	
MSS-78900						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78910	BC	7934	The MSS BAAS Accounts Payable (AP) function shall allow orders to be re-opened by M&O staff after final payment has been made.		functional	SMC-6420#C	NEW	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	

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MSS-78910						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78920	BC	7935	The MSS BAAS Accounts Payable (AP) function shall have the capability to access purchase order line items information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78920						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78930	BC	7936	The MSS BAAS Accounts Payable (AP) function shall have the capability to access inventory receiving reports information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.		functional	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	
MSS-78930						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78940	BC	7937	The MSS BAAS Accounts Payable (AP) function shall transmit vendor invoice payment requests and user refund payment requests to a NASA accounting system		interface	<u>SMC-6420#C</u>	<u>NEW</u>	<u>The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.</u>	<u>functional</u>	

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MSS-78940						SMC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full Capability <u>Accounts Payable functionality deferred.</u>
MSS-78950	<u>BC</u>	7938	The MSS BAAS Accounts Payable (AP) function shall prepare detailed and summary listings of amounts payable for a specific period of time.		functional	SMC-8920#B	5056	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	security <u>functional</u>	B: Full Capability
MSS-78950						<u>SMC-8920#C</u>	<u>NEW</u>	<u>The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information</u>	<u>security</u>	
MSS-78960	<u>BC</u>	7939	The MSS BAAS Accounts Payable (AP) function shall provide reporting of all unreconciled and outstanding items.		functional	SMC-8920#B	5056	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	security	B: Full Capability

<u>MSS-78960</u>						<u>SMC-8920#C</u>	<u>NEW</u>	<u>The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum:</u> <u>a. Account authorization and balances by users/groups</u> <u>b. Resource utilization costs by service rendered</u> <u>c. End-to-end cost accounting information by standard product</u> <u>d. User/group accounts payable/accounts receivable information</u>	<u>security</u>	
<u>MSS-78970</u>	<u>BC</u>	7940	The MSS BAAS Accounts Payable (AP) function shall provide vendor master list.		functional	SMC-8920#B	5056	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	security	B: Full Capability
<u>MSS-78970</u>						<u>SMC-8920#C</u>	<u>NEW</u>	<u>The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum:</u> <u>a. Account authorization and balances by users/groups</u> <u>b. Resource utilization costs by service rendered</u> <u>c. End-to-end cost accounting information by standard product</u> <u>d. User/group accounts payable/accounts receivable information</u>	<u>security</u>	
<u>MSS-79915</u>	<u>B</u>	<u>NEW</u>	<u>The MSS BAAS Cost Accounting function shall be able to collect resource unit costs by mode.</u>		<u>functional</u>	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	

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<u>MSS-79915</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>MSS-79915</u>						SMC-6380#B	5012	The SMC shall calculate the resource unit costs associated with processing information from system input to system output.	functional	
<u>MSS-92015</u>	B	NEW	The MSS Report Generation Service shall be able to create mode specific reports.		functional	EOSD0510#B	3833	ECS shall be capable of being tested during all phases of its development and flight operations.	functional	
<u>MSS-92015</u>						EOSD0630#B	3837	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	functional	
<u>MSS-92015</u>						SMC-8300#B	5026	The SMC shall have a generalized report generator with the capability to customize output reports covering, at a minimum, data previously captured in a management DBMS including: a. All or portions of the system b. Variable amounts of time	functional	
<u>MSS-92580</u>	B	8049	The MSS Report Generation Service shall be capable of generating an Accounts Payable Report by user/group		functional	SMC-8920#B	5056	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	security	B: Full Capability
<u>MSS-92590</u>	B	8050	The MSS Report Generation Service shall be capable of generating an Accounts Receivable Report by user/group		functional	SMC-8920#B	5056	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	security	B: Full Capability

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ABLE 2: Table 2 shows MSS LEVEL_4 requirements that shall be modified in RTM MAIN by this CCR.

4 ID	Rel	RTM Key	L4 Text	Clarification	Req Type
3-MSS-42000	B	7705	The MSS Software Distribution Service shall maintain use version-controlled repositories for toolkit software, software upgrades, and documentation software packages.	The version-controlled repository will function as a software development & distribution library. Software packages include, at a minimum: toolkit software, software upgrades, and documentation.	functional
3-MSS-42250	B	7718	The MSS License Management Service shall meter use of software license	<u>Requests to use licensed applications will be granted if the requested license is valid, the requester is an authorized user of the license, the requested license is available.</u>	functional
3-MSS-42290	B	7721	The MSS License Management Service shall compile license utilization statistics.	<u>Stats include, at a minimum: number of users accessing applications over fixed time periods; times and durations that applications are accessed; workstations and users accessing licensed applications; reservation queues' lengths during selected time periods.</u>	functional
3-MSS-42300	B	7722	The MSS License Management Service shall report license utilization statistics.	<u>Stats include, at a minimum: number of users accessing applications over fixed time periods; times and durations that applications are accessed; workstations and users accessing licensed applications; reservation queues' lengths during selected time periods.</u>	functional
3-MSS-51010	B	7768	The MSS Training Management Application Service at the SMC shall provide the capability to input, store, maintain, and view/print training information.	<u>Training information includes, at a minimum: training requirements; course descriptions; training resources; training locations; training schedules.</u>	functional
3-MSS-51020	B	7769	The MSS Training Management Application Service at the SMC shall provide the capability to input, store, maintain, and view/print training records information.	<u>Training records information includes, at a minimum: identification of personnel; identification of training/certification completed or in progress; expected completion date.</u>	functional
3-MSS-51030	B	7770	The MSS Training Management Application Service shall provide the capability to input, store, maintain, and view/print site training requirements information .		functional
3-MSS-51060	B	7771	The MSS Training Management Application Service at the SMC shall provide the capability to prepare, update, store, and view/print, and disseminate training courses descriptions, course prerequisites, resource requirements, and schedules information.	<u>Training course information includes, at a minimum: course descriptions, course prerequisites, and course schedules.</u>	functional
3-MSS-56070	B	7789	The MSS Mode Management test mode shall be capable of executing simultaneously with the operational mode <u>Service shall be capable of executing a test mode simultaneously with the production mode.</u>		<u>functional</u>
3-MSS-56080	B	7790	The MSS Mode Management Service shall training mode shall be capable of executing simultaneously with the operational mode <u>be capable of executing a training mode simultaneously with the production mode.</u>		<u>functional</u>
3-MSS-78700	BC	7914	The MSS BAAS Accounts Payable (AP) function shall maintain vendor/payee master files.		functional
3-MSS-78710	BC	7915	The MSS BAAS Accounts Payable (AP) function shall provide the capability to update vendor/payee master files.		functional
3-MSS-78720	BC	7916	The MSS BAAS Accounts Payable (AP) function shall maintain payee account balances.		functional

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3-MSS-78730	<u>BC</u>	7917	The MSS BAAS Accounts Payable (AP) function shall maintain payee account information to include: a. payee bank account information. b. payee taxpayer identification number and payee type. c. contract terms (e.g., net terms, terms that use discounting,end-of-month terms).		functional
3-MSS-78740	<u>BC</u>	7918	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish "pre-paid" accounts.		functional
3-MSS-78750	<u>BC</u>	7919	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish temporary accounts (e.g., when issuing a refund to a user account).		functional
3-MSS-78760	<u>BC</u>	7920	The MSS BAAS Accounts Payable (AP) function shall support batch entry of invoices.		functional
3-MSS-78770	<u>BC</u>	7921	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to purchase order line items.		functional
3-MSS-78780	<u>BC</u>	7922	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to inventory receiving reports.		functional
3-MSS-78790	<u>BC</u>	7923	The MSS BAAS Accounts Payable (AP) function shall provide the capability to indicate discrepancies between quantity, type, and cost of goods ordered, received, and invoiced.		functional
3-MSS-78810	<u>BC</u>	7924	The MSS BAAS Accounts Payable (AP) function shall provide on-line voucher approval by M&O staff.		functional
3-MSS-78820	<u>BC</u>	7925	The MSS BAAS Accounts Payable (AP) function shall provide re-routing capabilities for vouchers which are not approved the first time.		functional
3-MSS-78830	<u>BC</u>	7926	The MSS BAAS Accounts Payable (AP) function shall provide the ability to suspend a voucher from further processing.		functional
3-MSS-78840	<u>BC</u>	7927	The MSS BAAS Accounts Payable (AP) function shall provide the capability to void a voucher		functional
3-MSS-78850	<u>BC</u>	7928	The MSS BAAS Accounts Payable (AP) function shall allow M&O staff to break up a voucher into multiple payments when charges on invoice have different due dates.		functional
3-MSS-78860	<u>BC</u>	7929	The MSS BAAS Accounts Payable (AP) function shall provide the capability to combine several vouchers for the same vendor into a single payment.		functional
3-MSS-78870	<u>BC</u>	7930	The MSS BAAS Accounts Payable (AP) function shall provide the capability to post payments to "pre-paid" accounts automatically.		functional
3-MSS-78880	<u>BC</u>	7931	The MSS BAAS Accounts Payable (AP) function shall assign a status code to each voucher to track its progress through the system.		functional
3-MSS-78900	<u>BC</u>	7933	The MSS BAAS Accounts Payable (AP) function shall allow an on-line query and searching of the voucher history file.		functional
3-MSS-78910	<u>BC</u>	7934	The MSS BAAS Accounts Payable (AP) function shall allow orders to be re-opened by M&O staff after final payment has been made.		functional
3-MSS-78920	<u>BC</u>	7935	The MSS BAAS Accounts Payable (AP) function shall have the capability to access purchase order line items information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.		functional
3-MSS-78930	<u>BC</u>	7936	The MSS BAAS Accounts Payable (AP) function shall have the capability to access inventory receiving reports information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.		functional
3-MSS-78940	<u>BC</u>	7937	The MSS BAAS Accounts Payable (AP) function shall transmit vendor invoice payment requests and user refund payment requests to a NASA accounting system		interface
3-MSS-78950	<u>BC</u>	7938	The MSS BAAS Accounts Payable (AP) function shall prepare detailed and summary listings of amounts payable for a specific period of time.		functional
3-MSS-78960	<u>BC</u>	7939	The MSS BAAS Accounts Payable (AP) function shall provide reporting of all unreconciled and outstanding items.		functional
3-MSS-78970	<u>BC</u>	7940	The MSS BAAS Accounts Payable (AP) function shall provide vendor master list.		functional

ABLE 3: Table 3 shows the Level 4 requirements that shall be deleted from RTN MAIN by this CCR.

4 ID	Rel	RTM Key	L4 Text	Clarification	Req Type
3-MSS-42040	B	7709	The MSS Software Distribution Service shall schedule via the EMC Planning and Scheduling Service automatic and operator-assisted distribution of software packages.		functional
3-MSS-52040	B	7781	The MSS Policy and Procedures Management Service shall provide a bulletin board service with information on ECS, status, events and news,		functional
3-MSS-52050	B	7782	The MSS Policy and Procedures Management Service shall maintain a bulletin board service with information on ECS, status, events and news,		functional
3-MSS-92580	B	8049	The MSS Report Generation Service shall be capable of generating an Accounts Payable Report by user/group		functional
3-MSS-92590	B	8050	The MSS Report Generation Service shall be capable of generating an Accounts Receivable Report by user/group		functional

ABLE 4: Table 4 shows the new MSS LEVEL_4 requirements that shall be loaded into RTM MAIN by this CCR.

<u>L4 ID</u>	<u>Req_Src Id</u>	<u>Rel</u>	<u>RTM Key</u>	<u>L4 Text</u>	<u>Req Status</u>	<u>Verfic Method</u>	<u>Req Source</u>	<u>Req Type</u>
<u>C-MSS-18042</u>	<u>C-MSS-18042</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MDA shall have the capability to distinguish MSS log file records according to mode identifier.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-18044</u>	<u>C-MSS-18044</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MDA shall support a separate management database for each active mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-18046</u>	<u>C-MSS-18046</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MDA shall transfer MSS log file records to the appropriate management database based on the event's mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-18048</u>	<u>C-MSS-18048</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MDA shall transfer non-mode specific MSS log file records to all mode specific management databases.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-18072</u>	<u>C-MSS-18072</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Management Data Access Service shall have the capability to chain management events to their ancestor management events.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-18074</u>	<u>C-MSS-18074</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Management Data Access Service event chaining tool shall provide user access via the MDA user interface.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-36012</u>	<u>C-MSS-36012</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MACI shall have the capability to obtain the mode identifier of managed application.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-36014</u>	<u>C-MSS-36014</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MACI shall incorporate the mode identifier into all metrics collected.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-36016</u>	<u>C-MSS-36016</u>	<u>B</u>	<u>NEW</u>	<u>The MSS MACI shall be able to distinguish managed applications based on mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-42035</u>	<u>C-MSS-42035</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Software Distribution Service shall receive version-controlled software packages from the Baseline Manager Service for distribution.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>interface</u>
<u>C-MSS-42050</u>	<u>C-MSS-42050</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Software Distribution Service shall make toolkit software and documentation available for automated downloading.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56082</u>	<u>C-MSS-56082</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide the capability to initiate a new mode of execution.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56084</u>	<u>C-MSS-56084</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide the capability to control life cycle activities within each given mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56086</u>	<u>C-MSS-56086</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall have the capability to provide a mode identifier to initialize ECS applications.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56088</u>	<u>C-MSS-56088</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide a GUI for mode initiation.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56092</u>	<u>C-MSS-56092</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide a GUI for mode monitoring.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56094</u>	<u>C-MSS-56094</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall provide a GUI for mode control.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56096</u>	<u>C-MSS-56096</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall support concurrently executing non-production modes.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56098</u>	<u>C-MSS-56098</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall support no more than one production mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56100</u>	<u>C-MSS-56100</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Mode Management Service shall have the capability to provide a simulated time value.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-56102</u>	<u>C-MSS-56102</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Management Framework shall provide a mode specific view of ECS applications for any active mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-60012</u>	<u>C-MSS-60012</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Fault Management Service shall provide fault detection and isolation capabilities for each mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-60014</u>	<u>C-MSS-60014</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Fault Management Service shall provide the capability to distinguish faults between different modes.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-60016</u>	<u>C-MSS-60016</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Fault Management Service shall maintain fault statistics for each mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-66002</u>	<u>C-MSS-66002</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to monitor each mode for performance statistics.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-66004</u>	<u>C-MSS-66004</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall provide the capability to distinguish performance metrics between different modes.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>

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<u>C-MSS-66006</u>	<u>C-MSS-66006</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall maintain performance statistics for a given mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-66181</u>	<u>C-MSS-66181</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to capture and save histories of system errors and events for system analysis and trending.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-66182</u>	<u>C-MSS-66182</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to capture and save histories of operational status, performance of resources and maintenance activities for system analysis and trending.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-66183</u>	<u>C-MSS-66183</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Management Application Service shall have the capability to monitor the performance of ECS relational and object oriented database servers.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-69100</u>	<u>C-MSS-69100</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to save and retrieve data from the management database for long and short term trending.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-69105</u>	<u>C-MSS-69105</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to generate the following types of trend analysis:</u> <u>a. time series analysis</u> <u>b. analysis of variance including multiple analysis of variance</u> <u>c. correlation analysis</u> <u>d. regression analysis including non-linear and multiple regression</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-69110</u>	<u>C-MSS-69110</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall provide the capability to select parameters for trend analysis.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-69120</u>	<u>C-MSS-69120</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to output trend data in textual and graphical formats.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-69150</u>	<u>C-MSS-69150</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Performance Trending Service shall have the capability to perform short and long term trending by system, site and element.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-79915</u>	<u>C-MSS-79915</u>	<u>B</u>	<u>NEW</u>	<u>The MSS BAAS Cost Accounting function shall be able to collect resource unit costs by mode.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>
<u>C-MSS-92015</u>	<u>C-MSS-92015</u>	<u>B</u>	<u>NEW</u>	<u>The MSS Report Generation Service shall be able to create mode specific reports.</u>	<u>APPROVED</u>	<u>test</u>	<u>TD1</u>	<u>functional</u>

ABLE 5: Table 5 contains the REQ_BY_REL requirements that shall be modified.

RbR ID	RTM key	RbR Text	RbR Type	Interpretation
MC-3300#B	4789	The SMC shall monitor site and element hardware status to determine their operational states including, at a minimum: a. On-line b. Failed c. In maintenance d. In test mode e. In simulation mode	functional	Full-capability
MC-3420#B	4955	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum: a. Modifying system, site, or element activity allocations b. Potential enhancements to system, site, or element	functional	Full-capability
MC-4300#B	4959	The SMC shall support, maintain, and update system fault management policies and procedures including, at a minimum: a. Fault identification b. Fault priorities c. Recovery or corrective actions	functional	B:Full-capability
MC-6320#B	4992	The SMC shall perform, as needed, data and user audit trails.	security	B: Full-Capability
MC-6420#B	5020	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	functional	B: Full-Capability <u>Accounts Payable</u> <u>functionalty</u> <u>deferred.</u>
MC-8920#B	5056	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	security	B: Full-Capability

ABLE 6: Table 6 contains that NEW RBR requirements that shall be loaded into RTM MAIN by this CCR.

BR_Id	Req Key	Rel	Seg Alloc	Text	S_Verif Method	S_Verif Status	Req Category	A_Verif Method	A_Verif Status	Req Title	Req Type
MC-6420#C	new	C	CSMS	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	test	un-verified	Mission Essential	test	un-verified	Perform Acct Functions for ECS	functional
MC-8920#C	new	C	CSMS	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum: a. Account authorization and balances by users/groups b. Resource utilization costs by service rendered c. End-to-end cost accounting information by standard product d. User/group accounts payable/accounts receivable information	test	un-verified	Mission Essential	test	un-verified	Financial Acct. res. utilization	security
SN-1000#B	new	B	CSMS	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.	test	un-verified	Mission Essential	test	un-verified	Support for Error History	functional
OSD0500#B	new	B	FOS SDPS CSMS	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution	test	un-verified	Mission Critical	test	un-verified	ECS perform major Functions	functional

ABLE 7: Table 7 shows the RBR_TO_L4 links to be created by this CCR.

RbR ID	L4 ID
EOSD0500#B	<u>C-MSS-18072</u>
EOSD0500#B	<u>C-MSS-18074</u>
EOSD0510#B	<u>C-MSS-56084</u>
EOSD0510#B	<u>C-MSS-56086</u>
EOSD0510#B	<u>C-MSS-56088</u>
EOSD0510#B	<u>C-MSS-56092</u>
EOSD0510#B	<u>C-MSS-56094</u>
EOSD0510#B	<u>C-MSS-56096</u>
EOSD0510#B	<u>C-MSS-56098</u>
EOSD0510#B	<u>C-MSS-56100</u>
EOSD0510#B	<u>C-MSS-56102</u>
EOSD0510#B	<u>C-MSS-18042</u>
EOSD0510#B	<u>C-MSS-18044</u>
EOSD0510#B	<u>C-MSS-18046</u>
EOSD0510#B	<u>C-MSS-18048</u>
EOSD0510#B	<u>C-MSS-36012</u>
EOSD0510#B	<u>C-MSS-36014</u>
EOSD0510#B	<u>C-MSS-36016</u>
EOSD0510#B	<u>C-MSS-79915</u>
EOSD0510#B	<u>C-MSS-92015</u>
EOSD0630#B	<u>C-MSS-56070</u>
EOSD0630#B	<u>C-MSS-56084</u>
EOSD0630#B	<u>C-MSS-56086</u>
EOSD0630#B	<u>C-MSS-56088</u>
EOSD0630#B	<u>C-MSS-56092</u>
EOSD0630#B	<u>C-MSS-56094</u>
EOSD0630#B	<u>C-MSS-56096</u>
EOSD0630#B	<u>C-MSS-56098</u>
EOSD0630#B	<u>C-MSS-56100</u>
EOSD0630#B	<u>C-MSS-56102</u>
EOSD0630#B	<u>C-MSS-18042</u>
EOSD0630#B	<u>C-MSS-18044</u>
EOSD0630#B	<u>C-MSS-18046</u>
EOSD0630#B	<u>C-MSS-18048</u>
EOSD0630#B	<u>C-MSS-36012</u>
EOSD0630#B	<u>C-MSS-36014</u>
EOSD0630#B	<u>C-MSS-36016</u>
EOSD0630#B	<u>C-MSS-79915</u>
EOSD0630#B	<u>C-MSS-92015</u>
EOSD0780#B	<u>C-MSS-56082</u>
EOSD0780#B	<u>C-MSS-66002</u>
EOSD0780#B	<u>C-MSS-66004</u>

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EOSD0780#B	<u>C-MSS-66006</u>
EOSD0780#B	<u>C-MSS-60012</u>
EOSD0780#B	<u>C-MSS-60014</u>
EOSD0780#B	<u>C-MSS-60016</u>
EOSD2440#B	<u>C-MSS-18042</u>
EOSD2440#B	<u>C-MSS-18044</u>
EOSD2440#B	<u>C-MSS-18046</u>
EOSD2440#B	<u>C-MSS-18048</u>
ESN-1000#B	<u>C-MSS-69100</u>
ESN-1000#B	<u>C-MSS-66181</u>
ESN-1000#B	<u>C-MSS-66182</u>
ESN-1000#B	<u>C-MSS-69150</u>
ESN-1000#B	<u>C-MSS-18072</u>
ESN-1000#B	<u>C-MSS-18074</u>
SMC-2120#B	<u>C-MSS-42035</u>
SMC-2120#B	<u>C-MSS-42050</u>
SMC-2535#B	<u>C-MSS-42035</u>
SMC-3300#B	<u>C-MSS-66183</u>
SMC-3300#B	<u>C-MSS-66002</u>
SMC-3300#B	<u>C-MSS-66004</u>
SMC-3300#B	<u>C-MSS-66006</u>
SMC-3300#B	<u>C-MSS-60012</u>
SMC-3300#B	<u>C-MSS-60014</u>
SMC-3300#B	<u>C-MSS-60016</u>
SMC-3305#B	<u>C-MSS-66002</u>
SMC-3305#B	<u>C-MSS-66004</u>
SMC-3305#B	<u>C-MSS-66006</u>
SMC-3305#B	<u>C-MSS-60012</u>
SMC-3305#B	<u>C-MSS-60014</u>
SMC-3305#B	<u>C-MSS-60016</u>
SMC-3380#B	<u>C-MSS-69100</u>
SMC-3380#B	<u>C-MSS-66181</u>
SMC-3380#B	<u>C-MSS-66183</u>
SMC-3390#B	<u>C-MSS-66183</u>
SMC-3410#B	<u>C-MSS-69100</u>
SMC-3410#B	<u>C-MSS-69105</u>
SMC-3410#B	<u>C-MSS-69110</u>
SMC-3410#B	<u>C-MSS-69120</u>
SMC-3410#B	<u>C-MSS-66181</u>
SMC-3410#B	<u>C-MSS-66182</u>
SMC-3420#B	<u>C-MSS-69100</u>
SMC-3420#B	<u>C-MSS-69105</u>
SMC-3420#B	<u>C-MSS-69110</u>
SMC-3420#B	<u>C-MSS-69120</u>
SMC-3420#B	<u>C-MSS-66181</u>

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SMC-3420#B	<u>C-MSS-69150</u>
SMC-6320#C	<u>C-MSS-78810</u>
SMC-6380#B	<u>C-MSS-79915</u>
SMC-6420#C	<u>C-MSS-78700</u>
SMC-6420#C	<u>C-MSS-78710</u>
SMC-6420#C	<u>C-MSS-78720</u>
SMC-6420#C	<u>C-MSS-78730</u>
SMC-6420#C	<u>C-MSS-78740</u>
SMC-6420#C	<u>C-MSS-78750</u>
SMC-6420#C	<u>C-MSS-78760</u>
SMC-6420#C	<u>C-MSS-78770</u>
SMC-6420#C	<u>C-MSS-78780</u>
SMC-6420#C	<u>C-MSS-78790</u>
SMC-6420#C	<u>C-MSS-78810</u>
SMC-6420#C	<u>C-MSS-78820</u>
SMC-6420#C	<u>C-MSS-78830</u>
SMC-6420#C	<u>C-MSS-78840</u>
SMC-6420#C	<u>C-MSS-78850</u>
SMC-6420#C	<u>C-MSS-78860</u>
SMC-6420#C	<u>C-MSS-78870</u>
SMC-6420#C	<u>C-MSS-78880</u>
SMC-6420#C	<u>C-MSS-78900</u>
SMC-6420#C	<u>C-MSS-78910</u>
SMC-6420#C	<u>C-MSS-78920</u>
SMC-6420#C	<u>C-MSS-78930</u>
SMC-6420#C	<u>C-MSS-78940</u>
SMC-8300#B	<u>C-MSS-92015</u>
SMC-8920#C	<u>C-MSS-78950</u>
SMC-8920#C	<u>C-MSS-78960</u>
SMC-8920#C	<u>C-MSS-78970</u>

ABLE 8: Table 8 contains the RBR_TO_L4 links to be deleted by this CCR.

RbR ID	L4 ID
SMC-2120#B	C-MSS-42040
SMC-2535#B	C-MSS-42040
SMC-2620#B	C-MSS-52040
SMC-2620#B	C-MSS-52050
SMC-6320#B	C-MSS-78810
SMC-6420#B	C-MSS-78700
SMC-6420#B	C-MSS-78710
SMC-6420#B	C-MSS-78720
SMC-6420#B	C-MSS-78730
SMC-6420#B	C-MSS-78740
SMC-6420#B	C-MSS-78750
SMC-6420#B	C-MSS-78760
SMC-6420#B	C-MSS-78770
SMC-6420#B	C-MSS-78780
SMC-6420#B	C-MSS-78790
SMC-6420#B	C-MSS-78810
SMC-6420#B	C-MSS-78820
SMC-6420#B	C-MSS-78830
SMC-6420#B	C-MSS-78840
SMC-6420#B	C-MSS-78850
SMC-6420#B	C-MSS-78860
SMC-6420#B	C-MSS-78870
SMC-6420#B	C-MSS-78880
SMC-6420#B	C-MSS-78900
SMC-6420#B	C-MSS-78910
SMC-6420#B	C-MSS-78920
SMC-6420#B	C-MSS-78930
SMC-6420#B	C-MSS-78940
SMC-8920#B	C-MSS-78950
SMC-8920#B	C-MSS-78960
SMC-8920#B	C-MSS-78970

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SMC-8920#B	C-MSS-92580
SMC-8920#B	C-MSS-92590

ABLE 9: Table 9 shows the Mandatory Attributes for the Level 4 requirements that are current in RTM MAIN and related to this CCR.

paragraph id	req_source id	req type	release	req status	verification method	text	req source
C-MSS-42000	C-MSS-42000	functional	B	approved	test	The MSS Software Distribution Service shall maintain version controlled repositories for toolkit software, software upgrades, and documentation.	TD1
C-MSS-42040	C-MSS-42040	functional	B	approved	test	The MSS Software Distribution Service shall schedule via the EMC Planning and Scheduling Service automatic and operator-assisted distribution of software packages.	TD1
C-MSS-42250	C-MSS-42250	functional	B	approved	test	The MSS License Management Service shall meter use of software licenses,	TD1
C-MSS-42290	C-MSS-42290	functional	B	approved	test	The MSS License Management Service shall compile license utilization statistics.	TD1
C-MSS-42300	C-MSS-42300	functional	B	approved	test	The MSS License Management Service shall report license utilization statistics.	TD1
C-MSS-51010	C-MSS-51010	functional	B	approved	test	The MSS Training Management Service shall provide the capability to input, store, maintain, and view/print training information.	TD1
C-MSS-51020	C-MSS-51020	functional	B	approved	test	The MSS Training Management Service shall provide the capability to input, store, maintain, and view/print training records information.	TD1
C-MSS-51030	C-MSS-51030	functional	B	approved	test	The MSS Training Management Service shall provide the capability to input, store, maintain, and view/print site training requirements information.	TD1
C-MSS-51060	C-MSS-51060	functional	B	approved	test	The MSS Training Management Service at the SMC shall provide the capability to prepare, update, store, view/print, and disseminate training courses descriptions, course prerequisites, resource requirements, and schedules.	TD1
C-MSS-52040	C-MSS-52040	functional	B	approved	test	The MSS Policy and Procedures Management Service shall provide a bulletin board service with information on ECS, status, events and news,	TD1
C-MSS-52050	C-MSS-52050	functional	B	approved	test	The MSS Policy and Procedures Management Service shall maintain a bulletin board service with information on ECS, status, events and news,	TD1
C-MSS-56070	C-MSS-56070	functional	B	approved	test	The MSS Mode Management test mode shall be capable of executing simultaneously with the operational mode	TD1
C-MSS-56080	C-MSS-56080	functional	B	approved	test	The MSS Mode Management training mode shall be capable of executing simultaneously with the operational mode.	TD1
C-MSS-78700	C-MSS-78700	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall maintain vendor/payee master files.	TD1
C-MSS-78710	C-MSS-78710	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to update vendor/payee master files.	TD1
C-MSS-78720	C-MSS-78720	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall maintain payee account balances.	TD1
C-MSS-78730	C-MSS-78730	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall maintain payee account information to include: a. payee bank account information. b. payee taxpayer identification number and payee type. c. contract terms (e.g., net terms, terms that use discounting, end-of-month terms).	TD1
C-MSS-78740	C-MSS-78740	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish "pre-paid" accounts.	TD1
C-MSS-78750	C-MSS-78750	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish temporary accounts (e.g., when issuing a refund to a user account).	TD1
C-MSS-78760	C-MSS-78760	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall support batch entry of invoices.	TD1
C-MSS-78770	C-MSS-78770	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to purchase order line items.	TD1
C-MSS-78780	C-MSS-78780	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to inventory receiving reports.	TD1

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C-MSS-78790	C-MSS-78790	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to indicate discrepancies between quantity, type, and cost of goods ordered, received, and invoiced.	TD1
C-MSS-78810	C-MSS-78810	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide on-line voucher approval by M&O staff.	TD1
C-MSS-78820	C-MSS-78820	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide re-routing capabilities for vouchers which are not approved the first time.	TD1
C-MSS-78830	C-MSS-78830	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the ability to suspend a voucher from further processing.	TD1
C-MSS-78840	C-MSS-78840	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to void a voucher	TD1
C-MSS-78850	C-MSS-78850	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall allow M&O staff to break up a voucher into multiple payments when charges on invoice have different due dates.	TD1
C-MSS-78860	C-MSS-78860	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to combine several vouchers for the same vendor into a single payment.	TD1
C-MSS-78870	C-MSS-78870	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide the capability to post payments to "pre-paid" accounts automatically.	TD1
C-MSS-78880	C-MSS-78880	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall assign a status code to each voucher to track its progress through the system.	TD1
C-MSS-78900	C-MSS-78900	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall allow an on-line query and searching of the voucher history file.	TD1
C-MSS-78910	C-MSS-78910	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall allow orders to be re-opened by M&O staff after final payment has been made.	TD1
C-MSS-78920	C-MSS-78920	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall have the capability to access purchase order line items information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.	TD1
C-MSS-78930	C-MSS-78930	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall have the capability to access inventory receiving reports information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.	TD1
C-MSS-78940	C-MSS-78940	interface	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall transmit vendor invoice payment requests and user refund payment requests to a NASA accounting system	TD1
C-MSS-78950	C-MSS-78950	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall prepare detailed and summary listings of amounts payable for a specific period of time.	TD1
C-MSS-78960	C-MSS-78960	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide reporting of all unreconciled and outstanding items.	TD1
C-MSS-78970	C-MSS-78970	functional	B	approved	test	The MSS BAAS Accounts Payable (AP) function shall provide vendor master list.	TD1
C-MSS-92580	C-MSS-92580	functional	B	approved	test	The MSS Report Generation Service shall be capable of generating an Accounts Payable Report by user/ group	TD1
C-MSS-92590	C-MSS-92590	functional	B	approved	test	The MSS Report Generation Service shall be capable of generating an Accounts Receivable Report by user/group	TD1

TABLE 10: Table 10 shows the Mandatory Attribute for the RBR requirements current in RTM MAIN and related to this CCR.

RBR_Id	Rqt Key	Rel	Seg Alloc	Text	S_Verific Method	S_Verific Status	Req Category	A_Verific Method	A_Verific Status	Req Title	Req Type
OSD0510#B	3833	B	FOS SDPS CSMS	ECS shall be capable of being tested during all phases of its development and flight operations.	test	un-verified	mission essential	test	un-verified	Capable of being tested	functiona
OSD0630#B	3837	B	FOS SDPS CSMS	ECS shall be capable of simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.	demo	un-verified	mission essential	demo	un-verified	Simul Support IV&V and Devel	functiona
OSD0780#B	3845	B	FOS SDPS CSMS	Each ECS element shall be capable of being monitored during testing.	demo	un-verified	mission fulfillment	demo	un-verified	Element Test Monitoring	functiona
OSD2440#B	3885	B	FOS SDPS CSMS	Data base integrity including prevention of data loss and corruption shall be maintained.	test	un-verified	mission critical	test	un-verified	Data base Integrity - Maintained	security
SN-1000#B	3994	B	CSMS	The ESN network management function shall have the capability to build histories for different types of errors and events, and the capability to analyze errors and recommend corrective action wherever practical.	test	un-verified	mission essential	test	un-verified	Support for bldg error histories	functiona
MC-2120#B	4671	B	CSMS	The SMC shall make available for automated distribution to authorized users all unlicensed toolkit software, toolkit software upgrades, and toolkit documentation.	demo	un-verified	mission essential	demo	un-verified	Automated dist of unlicensed TK	functiona
MC-2535#B	4777	B	CSMS	Upon approval of an enhancement, the LSM shall facilitate the implementation of the approved changes within an elements hardware and software.	analysis	un-verified	mission essential	analysis	un-verified	Change implementation by LSM	functiona
MC-2620#B	4785	B	CSMS	The SMC shall maintain via the ECS bulletin board service, the SMC toolkit consisting of a list of SDPS approved CASE tools and references to standards for exchanging data for scientist use.	inspection	un-verified	mission essential	inspection	un-verified	SMC toolkit maintenance	functiona
MC-3300#B	4789	B	CSMS	The SMC shall monitor site and element hardware, and scientific and system software status to determine their operational states including, at a minimum:a. On-lineb. Failedc. In maintenanced. In test modee. In simulation mode	demo	un-verified	mission essential	demo	un-verified	Monitor site & elem HW/SW status	functiona
MC-3305#B	4790	B	CSMS	The LSM shall monitor its elements hardware, and scientific and system software status to determine their operational states including, at a minimum :a. On-lineb. Failed c. In maintenanced. In test modee. In simulation mode	test	un-verified	mission critical	test	un-verified	Elem system SW status monitoring	functiona
MC-3380#B	4941	B	CSMS	The SMC shall evaluate overall system performance.	analysis	un-verified	mission essential	analysis	un-verified	Evaluate system performance	functiona
MC-3390#B	4944	B	CSMS	The SMC shall generate alert indicators of fault or degraded conditions with the corrective actions.	test	un-verified	mission critical	test	un-verified	Generate alerts & corrective action	functiona

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MC-3410#B	4952	B	CSMS	The SMC shall perform short and long-term trend analysis of system, site, and element performance to include, at a minimum:a. Operational statusb. Performance of a particular resourcec. Maintenance activities (e.g., number of repairs per item)	analysis	un-verified	mission essential	analysis	un-verified	Performance trend analysis	functiona
MC-3420#B	4955	B	CSMS	The SMC shall perform short and long term trend analysis of system, site, and element performance to determine the impact on resources of, at a minimum:a. Modifying system, site, or element activity allocationsb. Potential enhancements to system, site, or element	analysis	un-verified	mission essential	analysis	un-verified	Perform trend analysis on sys res	functiona
MC-4300#B	4959	B	CSMS	The SMC shall support, maintain, and update system fault management policies and procedures including, at a minimum:a. Fault identificationb. Fault prioritiesc. Recovery or corrective actions	demo	un-verified	mission essential	demo	un-verified	Support fault mgt policies	functiona
MC-6320#B	4992	B	CSMS	The SMC shall perform, as needed, data and user audit trails.	demo	un-verified	mission essential	demo	un-verified	Perform data/user audit trails	security
MC-6380#B	5012	B	CSMS	The SMC shall calculate the resource unit costs associated with processing information from system input to system output.	test	un-verified	mission essential	test	un-verified	Resource Unit Cost determination	functiona
MC-6420#B	5020	B	CSMS	The SMC shall perform the accounts payable, accounts receivable, and disposition of receipt accounting functions for ECS.	test	un-verified	mission essential	test	un-verified	Perform acct functions for ECS	functiona
MC-8300#B	5026	B	CSMS	The SMC shall have a generalized report generator with the capability to customize output reports covering, at a minimum, data previously captured in a management DBMS including: a. All or portions of the systemb. Variable amounts of time	test	un-verified	mission essential	test	un-verified	Generalized report generator	functiona
MC-8920#B	5056	B	CSMS	The SMC shall have the capability to generate detailed and summary reports indicating the financial accounting of ground segment resource utilization by ECS and external users, including, at a minimum:a. Account authorization and balances by users/groupsb. Resource utilization costs by service renderedc. End-to-end cost accounting information by standard productd. User/group accounts payable/accounts receivable information	test	un-verified	mission essential	test	un-verified	Financial Acct of res. utilization	security
MC-1000#B	5150	B	CSMS	The SMC shall provide application programming interfaces (APIs) for the monitoring and control of managed resources. These APIs shall provide mechanisms for:a. Capturing, by an application, of management datab. Exchanging management data between a managed application and its management agentc. Exchanging management data between a management agent and the LSMd. Performing analyses and generating reports using management data	test	un-verified	mission essential	test	un-verified	SMC API	functiona